

# Water/ Sewer Systems Concession Lease Update

November 24, 2015



Presented  
by:

City of  
Allentown

Office  
of  
Compliance

Department  
of  
Public Works

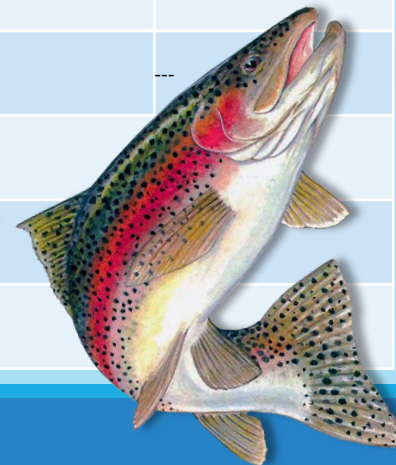
610-437-7587



# Wastewater Treatment Plant

		Performance Standards	NPDES Discharge Permit Effluent Limitations		
Parameter	LCA	Monthly Average Effluent Concentration	Monthly Average Effluent Limit	Weekly Average Effluent Limit	Instantaneous (Daily) Maximum Effluent Limit
Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	Met Requirement	≤ 12 mg/L	20 mg/L	30 mg/L	40 mg/L
CBOD5 Percent Removal	Met Requirement	≥ 90 %	≥90 %	---	---
Total Suspended Solids (TSS)	Met Requirement	≤12 mg/L	30 mg/L	45 mg/L	60 mg/L
TSS Percent Removal	Met Requirement	≥90 %	≥90 %	---	---
Ammonia Nitrogen (NH <sub>3</sub> -N) May 1 to October 31	Met Requirement	≤4.0 mg/L	5 mg/L	---	10 mg/L
Ammonia Nitrogen November 1 to April 30	Met Requirement	≤12.4 mg/L	15 mg/L	---	30 mg/L
Fecal Coliform May 1 to September 31	Met Requirement	200/100 ml geometric mean		---	---
Fecal Coliform October 1 to April 30	Met Requirement	2,000/100 ml geometric mean		---	---
Residual Chlorine	Met Requirement	≤0.5 mg/L		---	---
pH	Met Requirement	6.0 to 9.0 SU		---	---
Dissolved Oxygen	Met Requirement	5.0 mg/L minimum		---	---

**NO  
Effluent  
Quality  
Standards  
were  
exceeded**



# Wastewater Treatment Plant

No Headworks Overflows



*Outfall 003*

No Odor Complaints





# Wastewater Treatment Plant



**pennsylvania**

DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

In June  
2014,  
comments to  
the draft NPDES  
Permit were  
submitted to  
PaDEP.  
No response  
has been given.

## *Regulatory Update*

US EPA  
conducted a  
Clean Air Act  
Inspection on  
May 5, 2015



# Wastewater Treatment Plant



*Installation of MCC Power Zone House*

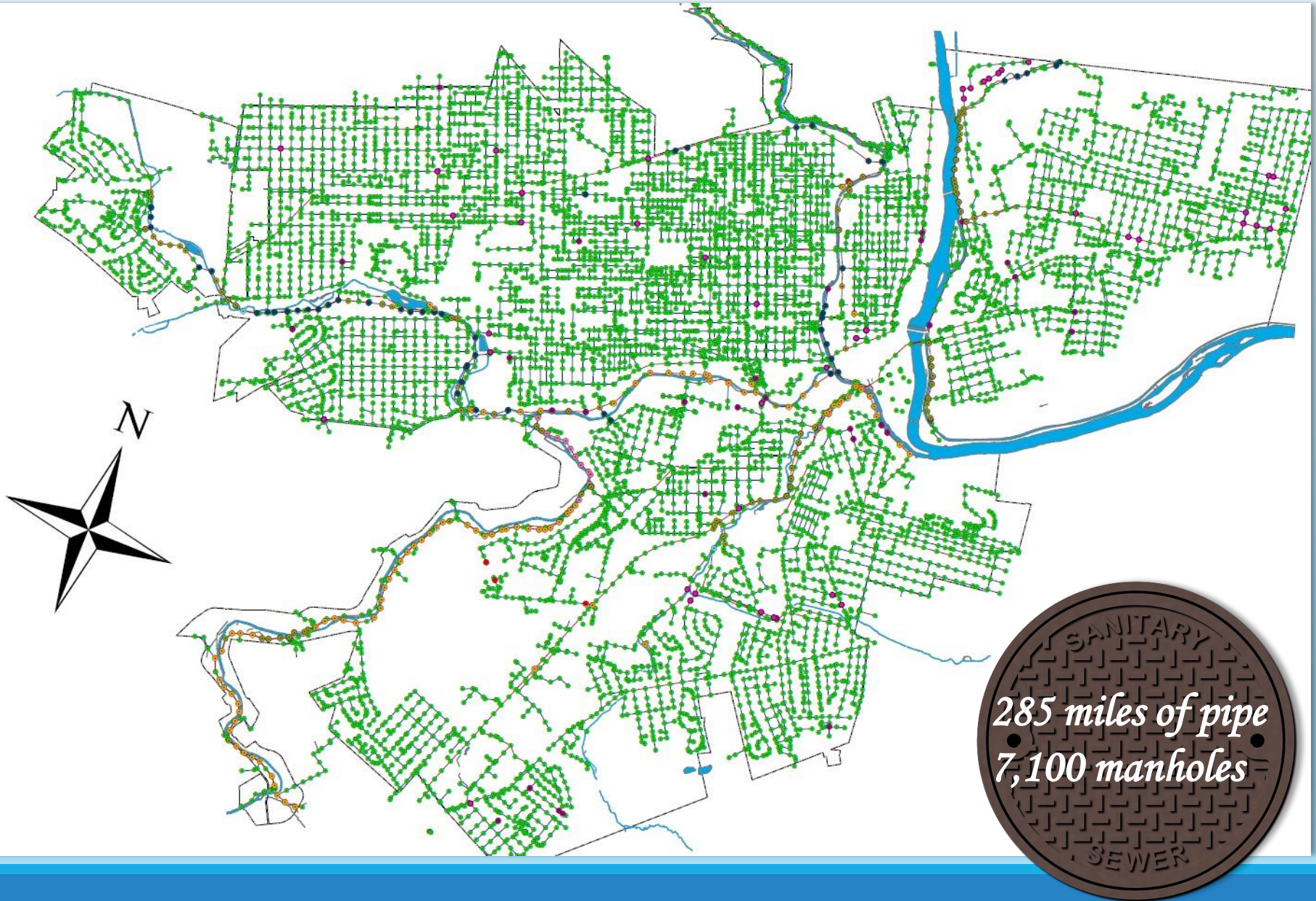
# Wastewater Treatment Plant



*Primary digester cover replacement in 2011*

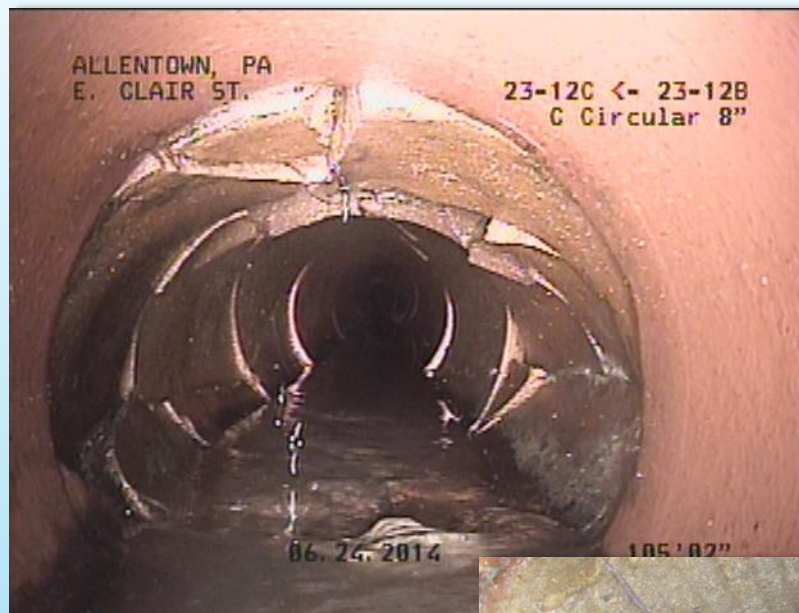


# Sewage Collection System





# Sewage Collection System



*CCTV Minimum  
linear footage  
requirement:  
55,000*

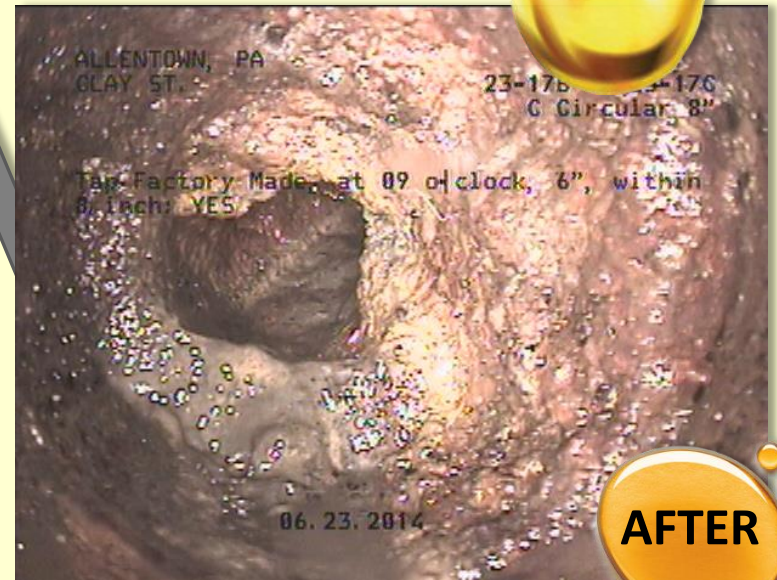
*Linear feet televised  
January 1 -  
September 30, 2015:  
56,425*



# Sewage Collection System

Tree roots  
block sewer pipe  
Maintain your lateral  
pipe

Residents  
can help  
**STOP**  
SSO's



**AFTER**

# Drinking Water Treatment



**NO**  
Maximum  
Contaminant  
Levels  
were  
exceeded



# Drinking Water Treatment

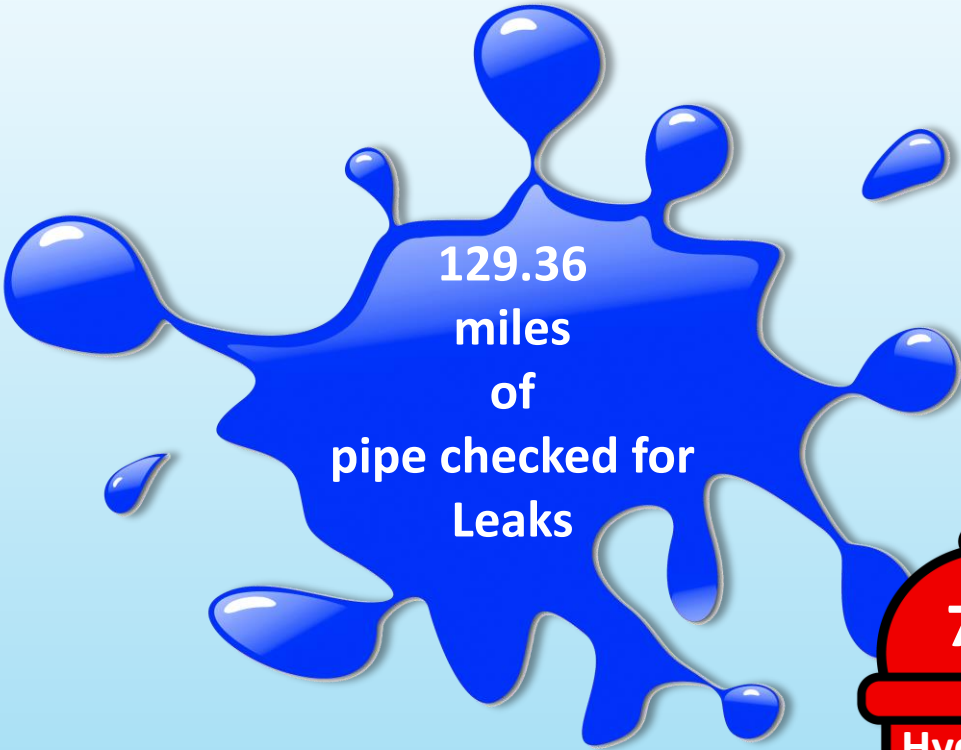


Full PaDEP  
Inspection of  
plant, reservoirs &  
pumping stations

PaDEP Filter  
Plant Performance  
Evaluation

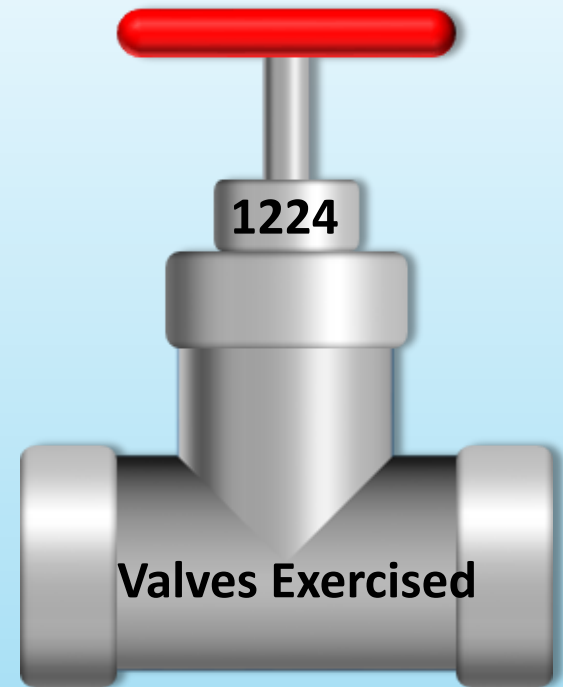
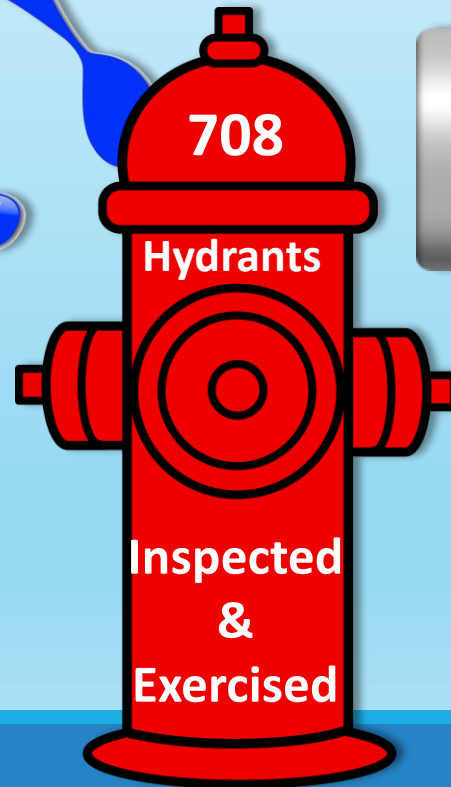
# Drinking Water Distribution System

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129.36  
miles  
of  
pipe checked for  
Leaks

*Metrics Update*





# Drinking Water Distribution System

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*Before*



*After*



# Drinking Water Distribution System

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# Drinking Water Distribution System



13<sup>th</sup> & Hamilton

6/22/2015 16:04

*Replacement of Inoperable Valves*



# Drinking Water Distribution System

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*Hamilton Street*

*Water Main Replacements*



# Customer Service

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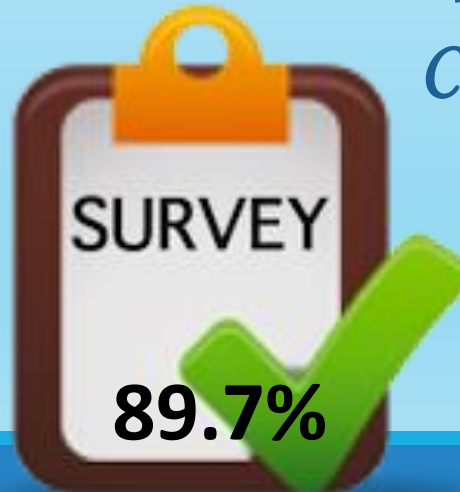


*14,129 Calls received in 6 months*



**10,882  
(77%)**

*Billing Questions or  
Credit Card Payments*



**89.7%**

# Completed Major Capital Improvement Projects

*Water Main  
Replacements*



*Belt Filter  
Press  
Rebuilds  
&  
Replacement*



# Administrative Orders

## *Examples of Sources of ...*



### *Infiltration:*

**Rain or groundwater entering joint, broken sewer main & private lateral**



# Administrative Order Projects in 2015

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## *Sanitary Sewer Manhole Linings*



*Before*



*After*

*77 manholes were lined.*



# Administrative Order Projects in 2015

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## *Sanitary Sewer Manhole Collars & Water Tight Covers*



*70 manhole structures were reinforced with collars &/or bolt down frames.*

# Security

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# Notices of Violation

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# QUESTIONS



*Please ask during Public Comment Period  
or*

*Call us at 610-437-7587*

*THANK YOU !*